

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2304	707/200.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/02 13:53
S2	4804	707/104.1.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/02 13:53
S3	4672	707/1.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/02 13:53
S4	5528	707/10.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/02 13:53
S5	977	707/8.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/02 13:53
S6	1672	707/6.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/02 13:53
S7	1826	707/5.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/02 13:53
S8	2018	707/4.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/02 13:54
S9	5870575	"707"/\$.ccls. and (ontology) @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/02 13:56
S10	160	"707"/\$.ccls. and (ontology) and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/11/22 18:41
S11	19	"707"/\$.ccls. and (ontology).ab. and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/03 20:13
S12	50	"707"/\$.ccls. and (inference).ab. and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/03 19:12
S13	21	"707"/\$.ccls. and (inference).ab. and concept and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/03 19:14
S14	5	"707"/\$.ccls. and (extract and concept).ab. and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/03 19:15
S15	6	"707"/\$.ccls. and (extract adj concept) and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/03 19:15

## EAST Search History

S16	58	("6076088").URPN.	USPAT	OR	OFF	2006/03/03 19:32
S17	10	S16 and concept and window	USPAT	OR	OFF	2006/03/03 19:34
S18	2	((concept adj window) and (property adj window)) and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/03 19:36
S19	99	((concept adj window)) and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/03 19:36
S20	0	((concept adj window) same property) and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/03 19:36
S21	1	((concept adj window)and (attribute adj window)) and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/03 19:40
S22	341	(relationship adj window) and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/03 19:40
S23	7	"707"/\$.ccls. and (relationship adj window) and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/03 19:44
S24	79	"707"/\$.ccls. and (ontology) and @ad<"20020903" and tree	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/03 19:47
S25	35	"707"/\$.ccls. and (ontology) and @ad<"20020903" and tree and windows	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/03 19:48
S26	32	"707"/\$.ccls. and (ontology) and @ad<"20020903" and tree and window	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/03 19:48
S27	7	"707"/\$.ccls. and (ontology).ab. and @ad<"20020903" and (parent same child)	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/03 20:15
S28	0	"707"/\$.ccls. and (ontology).ab. and @ad<"20020903" and (tree same parent same child)	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/03 20:15
S29	12	"707"/\$.ccls. and (ontology) and @ad<"20020903" and (tree same parent same child)	US-PGPUB; USPAT; EPO	OR	OFF	2006/03/03 20:15
S30	1	"6327586".pn.	USPAT	OR	OFF	2006/03/03 21:27
S31	21	"707"/\$.ccls. and (ontology).ab. and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/11/22 18:42
S32	0	"707"/\$.ccls. and (ontology near display) and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/11/22 18:42

## EAST Search History

S33	13	"707"/\$.ccls. and ((ontology).ab. and display) and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/11/22 18:47
S34	0	"707"/\$.ccls. and (ontology and display).ab. and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/11/22 18:52
S35	5	("5838965"   "5878434"   "6173289"   "6569207"   "6708161").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/22 18:51
S36	6	"707"/\$.ccls. and (parent same child same display) and ontology and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/11/22 18:55
S37	0	"707"/\$.ccls. and (parent same child same display) and ontology and metadata and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/11/22 18:55
S38	1	"707"/\$.ccls. and (parent same child same display) and ontology and meta-data and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/11/22 18:55
S39	6	"707"/\$.ccls. and (parent same child same display) and ontology and @ad<"20020903"	US-PGPUB; USPAT; EPO	OR	OFF	2006/11/22 18:55
S40	6	("20020059289" "6868423" "6675159" "6076088" "6327586" "7099885").pn.	US-PGPUB; USPAT	OR	OFF	2006/11/29 11:11
S41	5	S40 and weight	US-PGPUB; USPAT	OR	OFF	2006/11/29 11:11
S42	0	S40 and weight near concept	US-PGPUB; USPAT	OR	OFF	2006/11/29 11:11
S43	2	S40 and weight same concept	US-PGPUB; USPAT	OR	OFF	2006/11/29 11:11
S44	1	"5794236".pn.	USPAT	OR	OFF	2006/11/29 12:28
S45	0	707/20.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2007/04/19 11:06
S46	2930	707/200.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2007/04/19 11:06
S47	2526	707/4.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2007/04/19 11:06
S48	2314	707/5.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2007/04/19 11:06
S49	5636	707/1.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2007/04/19 11:06

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 1 Establishing the semantic web 11: An infrastructure for searching, reusing and evolving distributed ontologies

A. Maedche, B. Motik, L. Stojanovic, R. Studer, R. Volz

May 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03****Publisher:** ACM PressFull text available:  pdf(694.79 KB)Additional Information: full citation, abstract, references, citings, index terms

The vision of the Semantic Web can only be realized through proliferation of well-known ontologies describing different domains. To enable interoperability in the Semantic Web, it will be necessary to break these ontologies down into smaller, well-focused units that may be reused. Currently, three problems arise in that scenario. Firstly, it is difficult to locate ontologies to be reused, thus leading to many ontologies modeling the same thing. Secondly, current tools do not provide means for re ...

**Keywords:** ontology evolution, ontology registry, ontology reuse

 2 The use of mediation and ontology technologies for software component information retrieval

Regina M. M. Braga, Marta Mattoso, Cláudia M. L. Werner

May 2001 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2001 symposium on Software reusability: putting software reuse in context SSR '01**, Volume 26 Issue 3**Publisher:** ACM PressFull text available:  pdf(271.03 KB)Additional Information: full citation, abstract, references, citings, index terms

Component Based Developed aims at constructing software through the inter-relationship between pre-existing components. However, these components should be bound to a specific application domain in order to be effectively reused. Reusable domain components and Their related documentation are usually stored in a great variety of data sources. Thus, a possible solution for accessing this information is to use a software layer that integrates different component information sources. We presen ...

**Keywords:** component based engineering, component repositories, domain engineering, software classification and identification

3 JUSTICE: a judicial search tool using intelligent concept extraction

◆ James Osborn, Leon Sterling

June 1999 **Proceedings of the 7th international conference on Artificial intelligence and law ICAIL '99**

Publisher: ACM Press

Full text available:  pdf(893.11 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A legal knowledge based system called JUSTICE is presented which provides conceptual information retrieval for legal cases. JUSTICE can identify heterogeneous representations of concepts across all major Australian jurisdictions. The knowledge representation scheme used for legal and common sense concepts is inspired by human processes for the identification of concepts and the expected order and location of concepts. These are supported by flexible search functions and various string util ...

**Keywords:** conceptual information retrieval, intelligent law information systems, intelligent research aid, legal WWW agent, legal knowledge representation, legal ontology

4 Seed ontologies: growing digital libraries as distributed, intelligent systems

◆ Peter Weinstein, Gene Alloway

July 1997 **Proceedings of the second ACM international conference on Digital libraries DL '97**

Publisher: ACM Press

Full text available:  pdf(1.21 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 Using ontologies to index conceptual structures for tendering automation

Ahmad Kayed, Robert M. Colomb

January 2002 **Australian Computer Science Communications , Proceedings of the 13th Australasian database conference - Volume 5 ADC '02**, Volume 24 Issue 2

Publisher: Australian Computer Society, Inc., IEEE Computer Society Press

Full text available:  pdf(832.75 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Using natural language to model the tendering makes any process associated with tendering automation extremely difficult. Conceptual Graph is a well-known mechanism for knowledge representation. We implemented our ontologies using CGs. In tendering domain, we define two ontologies: The Tendering Structure and the Abstract Domain Ontology. In this paper we survey the indexing and retrieving techniques in CG literatures. Then we build a slight modification of these techniques to build our own inde ...

**Keywords:** conceptual structures, indexing, matching, ontology, software agents

6 Technical Papers: Ontology-based metadata generation from semi-structured information

Heiner Stuckenschmidt, Frank van Harmelen

October 2001 **Proceedings of the 1st international conference on Knowledge capture K-CAP '01**

Publisher: ACM Press

Full text available:  pdf(655.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Content-related metadata plays an important role in intelligent information systems. Especially on the world-wide web meaningful metadata describing the contents of a website is the key to intelligent retrieval and access of information. Metadata description standards like RDF and RDF schema have been developed and work in progress addresses the use of ontologies to provide a logical foundation for metadata. However, the acquisition of appropriate metadata is still a problem. The main part of t ...

## **7 Personal ontologies for web navigation**

 Jason Chaffee, Susan Gauch

November 2000 **Proceedings of the ninth international conference on Information and knowledge management CIKM '00**

**Publisher:** ACM Press

Full text available:  pdf(319.34 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** OBIWAN, Web navigation, classification; ontologies, ontology, personalization

## **8 Technical Papers: Building and exploiting ontologies for an automobile project**

 memory

Joanna Golebiowska, Rose Dieng-Kuntz, Olivier Corby, Didier Mousseau

October 2001 **Proceedings of the 1st international conference on Knowledge capture K-CAP '01**

**Publisher:** ACM Press

Full text available:  pdf(321.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes SAMOVAR (Systems Analysis of Modelling and Validation of Renault Automobiles), aiming at preserving and exploiting the memory of past projects in automobile design (in particular the memory of the problems encountered during a project) so as to exploit them in new projects. SAMOVAR relies on (1) the building of ontologies (in particular, thanks to the use of a linguistic tool on a textual corpus in order to enrich a core ontology in a semi-automatic way), (2) the «semantic» ...

## **9 Document ontology based personalized filtering system (poster session)**

 Kyung-Sam Choi, Chi-Hoon Lee, Phill-Kyu Rhee

October 2000 **Proceedings of the eighth ACM international conference on Multimedia MULTIMEDIA '00**

**Publisher:** ACM Press

Full text available:  pdf(318.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose the use of the personalized ontology model to improve the effectiveness of web documents filtering process. One important feature of this model is that by constructing the user specific ontology, web documents can be classified by using the user oriented meta data that reflects the user's view about the documents concept. Another is that by applying the user model to searching the classified documents, we achieved the effective document search performance. To find the user's prefer ...

**Keywords:** document filtering system, ontology, personalized systems, user modeling

## **10 NSDL: Ontology services for curriculum development in NSDL**

 Amarnath Gupta, Bertram Ludäscher, Reagan W. Moore

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries JCDL '02**

**Publisher:** ACM Press

Full text available: [pdf\(164.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe our effort to develop an ontology service on top of an educational digital library. The ontology is developed by relating library holdings to the educational concepts they refer to. The ontology system supports basic services like ontology-based search and complex services such as comparison of multiple curricula.

**Keywords:** NSDL, concept navigation, information integration, knowledge representation, ontology, science education

**11 A semantic-based approach to component retrieval**

 Vijayan Sugumaran, Veda C. Storey

August 2003 **ACM SIGMIS Database**, Volume 34 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(367.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

There continues to be a great deal of pressure to design and develop information systems within a short period of time. This urgency has reinvigorated research on software reuse, particularly in component based software development. One of the major problems associated with component-based development is the difficulty in searching and retrieving reusable components that meet the requirement at hand. In part, this problem exists because of the lack of sophisticated query methods and techniques. ...

**Keywords:** component based development, domain model, ontology, reuse repository, systems development

**12 Semantic coherence scoring using an ontology**

Iryna Gurevych, Rainer Malaka, Robert Porzel, Hans-Péter Zorn

May 2003 **Proceedings of the 2003 Conference of the North American Chapter of the Association for Computational Linguistics on Human Language Technology - Volume 1 NAACL '03**

**Publisher:** Association for Computational Linguistics

Full text available: [pdf\(155.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper we present ONTOSCORE, a system for scoring sets of concepts on the basis of an ontology. We apply our system to the task of scoring alternative speech recognition hypotheses (SRH) in terms of their semantic coherence. We conducted an annotation experiment and showed that human annotators can reliably differentiate between semantically coherent and incoherent speech recognition hypotheses. An evaluation of our system against the annotated data shows that, it successfully classifies ...

**13 Ontology-driven geographic information systems**

 Frederico T. Fonseca, Max J. Egenhofer

November 1999 **Proceedings of the 7th ACM international symposium on Advances in geographic information systems GIS '99**

**Publisher:** ACM Press

Full text available: [pdf\(67.03 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** GIS architecture, interoperability, object orientation, ontology

- 14 Ontologies: Local consensus ontologies for B2B-oriented service composition  
 Andrew Williams, Anand Padmanabhan, M. Brian Blake  
July 2003 **Proceedings of the second international joint conference on Autonomous agents and multiagent systems AAMAS '03**  
Publisher: ACM Press

Full text available:  [pdf\(469.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Agents seeking to discover and compose needed Web services may face knowledge sharing interoperability problems due to differing ontologies. In practice, agents may not have a global consensus ontology that will facilitate knowledge sharing and integration of required services. We investigate a method for agents to develop local consensus ontologies to aid in the communication within a multi-agent system of business-to-business (B2B) agents. We compare variations of syntactic and semantic simila ...

**Keywords:** agent-mediated electronic commerce, ontologies in agent-based information systems and knowledge management

- 15 Searching across language, time, and space: Using sharable ontology to retrieve historical images  
 Von-Wun Soo, Chen-Yu Lee, Jaw Jium Yeh, Ching-chih Chen  
July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries JCDL '02**  
Publisher: ACM Press

Full text available:  [pdf\(701.50 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a framework of utilizing sharable domain ontology and thesaurus to help the retrieval of historical images of the First Emperor of China's terracotta warriors and horses. Incorporating the sharable domain ontology in RDF and RDF schemas of semantic web and a thesaurus, we implement methods to allow easily annotating images into RDF instances and parsing natural language like queries into the query schema in XML format. We also implement a partial structural matching algorithm to match ...

**Keywords:** RDF schemas, XML, historical image retrieval, multi-agent systems, semantic web, sharable ontology

- 16 A comparative study for domain ontology guided feature extraction  
Bill B. Wang, R. I. Bob McKay, Hussein A. Abbass, Michael Barlow  
February 2003 **Proceedings of the 26th Australasian computer science conference - Volume 16 ACSC '03**  
Publisher: Australian Computer Society, Inc.

Full text available:  [pdf\(119.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduced a novel method employing a hierarchical domain ontology structure to extract features representing documents in our previous publication (Wang 2002). All raw words in the training documents are mapped to concepts in a concept hierarchy derived from the domain ontology. Based on these concepts, a concept hierarchy is established for the training document space, using is-a relationships defined in the domain ontology. An optimum concept set may be obtained by searching the concept hi ...

**Keywords:**  $\chi^2$  statistics, KNN algorithm, concept hierarchy, information gain, ontology, principal component analysis, text classification

- 17 System performance and benchmarking: The XXL search engine: ranked retrieval of XML data using indexes and ontologies  Anja Theobald, Gerhard Weikum June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02** Publisher: ACM Press Full text available:  pdf(111.19 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
- 18 Data management issues in electronic commerce: Business data management for business-to-business electronic commerce  Christoph Quix, Mareike Schoop, Manfred Jeusfeld March 2002 **ACM SIGMOD Record**, Volume 31 Issue 1 Publisher: ACM Press Full text available:  pdf(582.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#)  
Business-to-business electronic commerce (B2B EC) opens up new possibilities of trade. For example, new business partners from around the globe can be found, their offers can be compared, even complex negotiations can be conducted electronically, and a contract can be drawn up and fulfilled via an electronic marketplace. However, a sophisticated data management is required to provide such facilities. In this paper, the results of a multi-national project on creating a business-to-business elect ...
- 19 Cost benefits of ontologies  Tim Menzies September 1999 **intelligence**, Volume 10 Issue 3 Publisher: ACM Press Full text available:  pdf(1.06 MB)  html(22.11 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
- 20 Ontology applications and design: Predicting how ontologies for the semantic web will evolve  Henry Kim February 2002 **Communications of the ACM**, Volume 45 Issue 2 Publisher: ACM Press Full text available:  pdf(140.82 KB)  html(32.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
The first phase in the evolution of the semantic Web may be the development of decentralized, adaptive ontologies for software specification.

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